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PATENT ABSTRACTS OF JAPAN

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ASSOCIATION MEMORY MODULE

**INVENTOR:** MIYAZAKI TOSHIAKI; HAYASHI TSUGUMASA

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**ASSIGNEE-AT-ISSUE:** NIPPON TELEGR & TELEPH CORP <NTT>

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**IPC-MAIN-CL:** G 11C015#4

**CORE TERMS:** retrieval, memory, priority, module, encoder

**ENGLISH-ABST:**

**PROBLEM TO BE SOLVED:** To provide an association memory module having a high speed property being produced by performing best matching processing using hardware, and the flexibility for using the capacity of the entire prepared association memory module effectively.

**SOLUTION:** The memory module 100 has a means capable of arbitrarily setting the order of priority of data selection in a priority encoder 106 from the outside, and a simultaneous retrieval execution means for simultaneously giving input data to each of a plurality of association memories 100a-100d and for allowing each of a plurality of association memories 100a-100d to simultaneously execute retrieval. Then, the priority encoder 106 selects one retrieval result from a plurality of retrieval results being obtained by simultaneously executing the retrieval.